Quality Control

DQA:		Date:	
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NCR: Yes / No

### **WORK ORDER NON-CONFORMANCE / UPDATE**

NCR: TE	es / No				WORK ORDER NOIN-	CON	rokii	VIANCE / OP	DAIL	QA Closed:	Dat	e:
Work Ordei	r:				DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part No					Rework Scrap		.1	Skid-tube Machining	Crosstube Small Fab	4	Water Jet d. Eng. Coor.	Quality
NCR No	0		<del> · ·</del>		Use-as-is Work Order Update			noforming Large Fab	Finishing Composite	Rec/Stoi	re/Packaging Supplier	Other
Root				Descri	ption of work order update	Ini	itial	Ac	tion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chie	f Eng	Desc	cription	Date	Verification	n QC Inspector
Ooc/Data		ļ										
quip/Tooling												
Operator	_					ŀ						
Material												
etup												
Other	_	Į										
rocess	_											
Supplier	_											
raining												
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					· · · · · · · · · · · · · · · · · · ·	FAULT	CATE	GORY			<del></del>	· · · · · · · · · · · · · · · · · · ·
Landin			•	_	General				<u> </u>	Ovalized	·	Pressure/Forced
-	Bending			.,  -	Bend	-	Grain		<u> </u>	4		
-	Centre N	ot Concei	ntric to (	)/S -  -	BOM/Route	-	lardwa			Over/Under	ŀ	Temperature/Cure Weld
-	Cracks			⊢	Broken/Damaged	-	-	on Incomplete	// <u> </u>	Part Incorred		Wrong Stock Pulled
	Crushed/	Crimpea		<u> </u>	Burrs			ions Incomplete/	Unclear	Part Lost/Mi	issing [	wrong Stock Pulled
-	Cuffs	_		-	Contamination	-		enance	-	4	<b>A</b>	
	Heat Trea		TL. :	<u> </u>	Countersink	- }	/lislabe		<u> </u>	Positioned V		Other
-	Inspectio	-	ıupe	-	Cut Too Short	1	/lisread	1	<u>L</u> _	Power Loss/	ourge [	Jotner
-	Ripples in			.  -	Drill Holes		Offset	Sattle and an		<del></del>		
-	Torque V			`  -	Drawing	$\vdash$		Calibration				
	Turning S				Finish	$\vdash$		Sequence				
	Wave/Tv	vist in Tul	oe e	Į.	Folio	1 10	Jutside	Dimensions		_		

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Work Orde September-27-1				*	1075	92*			,				Page 2
Item ID: Revision ID: Item Name:	D2001-4 Valve Assy,	1/4"		Accept	*	N900	040	100	)*	Setup	Start Stop	171.	S1* S2*
	9/27/13	Start Qty: 4.00 Req'd Qty: 4.00	*4* *4*			Cust Item I Customer:	D:						
Approvals:	Process Pl	an:	Date:	Tooling	<b>;:</b>	D:	ate:	_		Run	Start	*N	R1*
	QC:		Date:	SPC (Y	//N):	D:	ate:				Stop	*N	R2*
Sequence ID/ Work Center II	)	Operation Description			Jp/ Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Re	•	Reject Number	Insp. Stamp
*130		Small Fab		0.00					Si	7			13/10/2.
Small Fab		Memo		0.00					-01	·			Sporal
Small Fab		Remove exi	sting ID numbers and repla	ce with Dart	P/N & B/N								,
140		QC5- Inspect part compl	leteness to step on W/O	0.00	DAS <b>27</b>				8				
*140* QC		Memo		0.00	15 10 2]				_0				
Quality Control  150  *150*		Identify as per dwg & St	ock Location: 5T00	Q 0.00	~ (04)				8x	, 1	DAS 28	13-10	)-21
Packaging		Memo		0.00					······	***	0.89		

Memo

Packaging

DAS **36** 9-89

9-89

DQA:	_Date:	

NCR: Yes / No

# **WORK ORDER NON-CONFORMANCE / UPDATE**

								<u>.</u>		QA Closed:	Date	•
Work Orde	··				DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
Part N NCR N	o				Rework Scrap Use-as-is Work Order Update		Thern	Skid-tube  Machining  noforming  Large Fab	Crosstube Small Fab Finishing Composite	i	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root		Į.		Descri	ption of work order update	In	itial	Ac	tion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chi	ef Eng	Desc	ription	Date	Verification	QC Inspector
Ooc/Data												
quip/Tooling						1						
Operator												
Material						1						
etup												
Other		ļ										
Process		İ				İ						
Supplier												
raining												
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					F	AULT	CATE	GORY				
Landin	g Gear				General	_			_	•	_	_
Ĺ	Bending				Bend	$\square$	Grain			Ovalized		Pressure/Forced
	Centre N	ot Conce	ntric to	o/s	BOM/Route	-	Hardwa			Over/Under	<b>├</b>	Temperature/Cure
	Cracks				Broken/Damaged	-	•	ion Incomplete	_	Part Incorred	<b>⊢</b>	Weld
	Crushed/	'Crimped			Burrs	-		ions Incomplete/	'Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs			<u> </u>	Contamination	$\vdash$		enance	<u> </u>	Part Moved		
1	Heat Tre				Countersink	$\mathbf{H}$	Mislabe		<u> </u> _	Positioned V		¬
	Inspection		Tube	L	Cut Too Short	$\vdash$	Misread	d		Power Loss/	Surge	Other
	Ripples in			<u> </u>	Drill Holes	-	Offset				<u></u>	
	Torque V			n	Drawing	<b></b>		Calibration				
ļ	Turning 5	•			Finish	-		Sequence				
i	Wave/Tv	vist in Tul	be	1	Folio	1 1	Outside	Dimensions				

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Work Order ID 107592 \*107592\* Page 3 September-27-13 12:51:01 PM Item ID: D2001-4 Accept \*N900040100\* Setup Start **Revision ID:** Item Name: Valve Assy, 1/4" Start Qty: 4.00 **Start Date:** 9/27/13 **Cust Item ID: Req'd Qty:** 4.00 Required Date: 9/27/13 **Customer:** Reference: Run Start Date: **Tooling: Process Plan:** Approvals: Date: Stop QC: SPC (Y/N): Date: Date: Sequence ID/ Reject Operation Set Up/ Tool ID Tool # Plan Reject Insp. Accept Work Center ID Number Stamp Description **Run Hours** Code Otv Qty QC21- Final Inspection - Work Order Release 0.00 160 \*160\* mF 3-10-21 QC 0.00

Memo

Quality Control

DQA:	Date:	

NCR: Yes / No

### **WORK ORDER NON-CONFORMANCE / UPDATE**

										QA Closed:	Da	te:	
Work Orde	r:				DISPOSITION				AGAINST DE	PARTMENT	/PROCESS		
Part N	o				Rework Scrap		٨	Skid-tube // // // // // // // // // // // // //	Crosstube Small Fab	1	Water Jet d. Eng. Coor.		Quality Quality
NCR N	o				Use-as-is Work Order Update	]   ''		oforming Large Fab	Finishing Composite	Rec/Stol	re/Packaging Supplier	<del></del>	Other
Root				Descri	ption of work order update	Initi	ial	Act	tion	Sign &			
Cause	Date	Step	Qty		or Non-conformance	Chief	Eng	Descr	ription	Date	Verificatio	n O	C Inspector
Doc/Data													
Equip/Tooling													
Operator							l						
Material													
Setup													
Other	_					1	1						
Process	_												
Supplier	_					1	1						
Training													
Unapproved		L		·			1						
						AULT C	ATEG	GORY					
Landin	ng Gear				General				_	1			
}	Bending			<u> </u>	Bend	$\mathbf{H}$	ain			Ovalized			ure/Forced
1	Centre No	ot Conce	ntric to (	o/s	BOM/Route	<del></del>	rdwar		<u> </u>	Over/Under		<b>⊢</b>	erature/Cure
1	Cracks			<u> </u>	Broken/Damaged	<b>—</b>	-	on Incomplete	<u> </u>	Part Incorre		Weld	
	Crushed/	Crimped		<u> </u>	Burrs	-		ons Incomplete/I	Unclear	Part Lost/Mi	issing	Wron	g Stock Pulled
	Cuffs			_	Contamination	_		nance		Part Moved			
	Heat Trea	at			Countersink	$\vdash$	islabel			Positioned V	_		
	Inspectio		Tube		Cut Too Short	$\vdash$	isread		L_	Power Loss/	Surge	Othe	···
	Ripples in	n Bend			Drill Holes	$\vdash$	fset						· · · · · · · · · · · · · · · · · · ·
	Torque V	Vaves in I	Extrusio	n L	Drawing	—		alibration					
	Turning S	equence			Finish	ЩOu	ut of S	equence					,
	Wave/Tw	ist in Tul	эe		Folio	Ou	ıtside	Dimensions					

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**Picklist Print** 

September-27-13 12:51:01 PM

Page 1

Work Order ID:

107592

Parent Item:

D2001-4

Parent Item Name: Valve

Valve Assy, 1/4"

**Start Date:** 9/27/13

Required Date: 9/27/13

Start Qty: 4.00

Required Qty: 4.00

Comments:

IPP A04.07.06New IssueKJ/RF

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
76-101-32		Purchased	No			110	Each	0.0000	1	4	1/20	11/2	,
VALVE											73/	10/2	(8)

DQA:	Date:	

NCR: Yes / No WORK OR

## **WORK ORDER NON-CONFORMANCE / UPDATE**

٠	<u>.</u>									QA Closed:	Date	:
Work Orde	r <del>i</del> -				DISPOSITION			-	AGAINST DE	PARTMENT	PROCESS	
Part N	0				. Rework Scrap Use-as-is Work Order Update		Thern	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	i	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root		:	·	i	ption of work order update		itial		ction	Sign &	:	
Cause	Date	Step	Qty	(	or Non-conformance	Chi	ef Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data						1						
Equip/Tooling										·		
Operator											:	
Material												
Setup			Ì									
Other		1				1						
Process		1								,		
Supplier		ļ				1						
Training		·										
Unapproved		<u> </u>				<u> </u>						
						AULT	CATE	GORY		<del>.</del>	-	
Landir	ng Gear			_	General				<u></u>	1	_	٦
	Bending			_	Bend	$\vdash$	Grain		<u> </u>	Ovalized	. <b>-</b>	Pressure/Forced
	Centre N	ot Conce	ntric to	o/s	BOM/Route	$\mathbf{H}$	Hardwa		-	Over/Under	<u> </u>	Temperature/Cure
	Cracks			_	Broken/Damaged	$\vdash$		ion Incomplete		Part Incorred	<u> </u>	Weld
	Crushed/	'Crimped			Burrs	-		tions Incomplete,	/Unclear	Part Lost/Mi	issing	Wrong Stock Pulled
	Cuffs			<u> </u>	Contamination	-		enance	·	Part Moved		•
	Heat Trea			<u> </u>	Countersink	$\vdash$	Mislabe		<u> </u>	Positioned V		704
	Inspectio		Tube	. —	Cut Too Short	$\vdash$	Misrea	d		Power Loss/	Surge	Other
	Ripples in			<u> </u>	Drill Holes	$\vdash$	Offset					
	Torque V			n Ľ	Drawing	-		Calibration	•			·
	Turning S	-		<u> </u>	Finish	$\vdash$		Sequence				
	Wave/Tv	vist in Tu	be	ļ	Folio	1 1	Outside	e Dimensions				

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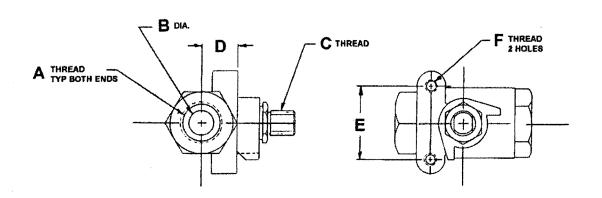


DESIG	<u>"</u>	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHEC	(ED ,	APPROVED.	DRAWING NO.	REV. C
	-##-	4	D2001 SHEET	1 OF 1
DATE		<u> </u>	TITLE	SCALE
04.0	7.06		VALVE ASSEMBLY	NTS
****		90.04.02	NEW ISSUE	
Α		92.05.12	-043 ADDED	
8		96.04.10	DART P/N CHG,041-6,042-12,ADD	-16
С		04.07.06	ADD D2001-4	

2



# SPECIFICATION CONTROL DRAWING



Dart P/N	Apollo P/N	A	В	С	D	E	F
D2001-4	76-101-32	1/4 NPT	0.370	3/8-24 NF	0.56	1.120	10-24 UNC
D2001-6	76-102-01	3/8 NPT	0.370	3/8-24 NF	0.56	1.120	10-24 UNC
D2001-8	76-103-01	1/2 NPT	0.500	3/8-24 NF	0.60	1.120	10-24 UNC
D2001-12	76-104-01	3/4 NPT	0.680	7/16-20 NF	0.79	1.370	10-24 UNC
D2001-16	76-105-01	1 NPT	0.870	7/16-20	0.99	1.370	10-24 UNC

#### NOTES:

1) POSSIBLE SUPPLIER: FLO-CONTROL INC. OR APOLLO VALVE DIVISION

2) DISCARD HANDLE AND ATTACHING NUT, EXCEPT FOR D2001-4

3) CHECK DIMENSION SHOWN ON THIS DRAWING

4) REFERENCE INFORMATION:

MATERIAL: 316 STAINLESS STEEL INVESTMENT CAST COMPONENTS

MEETS NACE-MR-01-75

MEETS WW-V-35C TYPE II, COMP SS, STYLE 3

PRESSURE RATING: 2000 PSI @ 100°F

150 PSI @ 400°F

5) IDENTFY WITH DART P/N & B/N USING FINE POINT PERMANENT INK MARKER U

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Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Tel: 613 632 9577

Fax: 613 632 1053

#### **PURCHASE ORDER**

#### Purchase Order ID PO21536

Purchase Order Date 10/1/2013 PO Print Date 10/1/2013

Page Number 1 of 1

Order From:

FLO-CONTROL INC. 80 CENTER RD. CARTERSVILLE, GA 30121 US

VU-FL0001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

**CANADA** 

**Contact Name** 

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via: Ship Acct: 770 382 0006

Buyer

Chantal Lavoie

FedEx PI collect

**Customer POID** Customer Tax #

10127-2607

Terms Currency Net 30 USD

FOB

Destination-Collect

Extended **PO Unit Price** Req Qty/ Req Date/ CD Description/ Line Reference Unit of Taxable Mfg ID Vendor Part Number Measure **Line Comments Promise Date Delivery Comments** \$52.61 \$420.88 10/7/2013 8.00 **VALVE** 76-101-32 Each Yes

10/7/2013

AS PER DWG D2001 REV. C B107592 C OF C REQUIRED

Line Total:

\$420.88

PO Total:

\$420.88

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required YES

PST# 6122-5207

1

Change Nbr:

Change Date:

10/1/2013

# $^{''}\mathcal{A}\,p\,o\,\mathcal{U}o^{^{(\!\!\! \, 6\!\!\!\! )}}$ Valves Manufactured by Conbraco Industries, Inc.



Plt(s) STC

Pcs

Page: 1

Sold To: FLO-CONTROL INC 80 CENTER RD CARTERSVILLE UNITED STATES

GA 30121

Ship To: DART AEROSPACE 1270 ABERDEEN HAWKESBURY

CANADA

ON K6A1K7

Pieces: Weight:

PPD/COL

1 5.40

С

Packed By: BILLB

Pack Date: 10/17/13 Shipped By: SHIPPRF

PP∩#

Ship Date: 10/17/13

\*\* ORIGINAL \*\*

								PRO# ASN#	67075000011129995
Customer 0100466	No. Cust. Order# 69673	Order No. C237733	Date Received 10/17/13	Salesman 2				Ship Via/Instructions FX01 151793240	
Line Number	Part Number	Part Description		Quantity Ordered	Quantity Shipped	Unit	Customer Part Nu	mber/Comments	
2000	7610132A	THANK YOU FOR BUYING AMERICAN!!!; BV,1/4"NPT,SS,SS TEE HNDL SHIPPING LOCATION: PAGELAND DISTRIBUTION CEN 1418 S. PEARL ST. PAGELAND, SC 29728			8 INTER	8	EA .		
	·								



#### Manufactured by Conbraco Industries, Inc.

P.O. Box 125 Pageland S.C. 29728 Phone: [843] 672-6161 Fax: [843] 672-1648

www.apollovalves.com

#### Certificate of Compliance

**Customer:** 

FLO-CONTROL INC

Date:

10/18/13

CII Order#: 237733

PO#:

69673

Part#:

Qty:

**Description:** 

7610132A

8

BV,1/4"NPT,SS,SS TEE HNDL

This is to certify that the above materials comply with the requirements of the applicable purchase order and the codes and ratings shown in our published catalog of products manufactured by Conbraco Industries, Inc. or as otherwise specified above. All products are manufactured, tested and assembled in the United States of America. All products have met the inspection requirements.

Respectfully,

John C. Regan

Corporate Quality Assurance Manager

ES-1510 REV. A

